

# ASDI to SWIM Transition

*March 17<sup>th</sup>, 2016*



Federal Aviation  
Administration



# Agenda

- **SWIM On-Ramping Process**
- **Overview of Transition Status**
- **Critical Milestones**
- **Frequently Asked Questions**
- **Open Discussion**



# Overview of Transition Status

- **January 2013** – TFMS announces intent to decommission ASDI service
- **Early 2014** – SWIM begins outreach via email, phone calls, and user forums to discuss transition process
- **April 2014** – ASDI Replacement (TFMData) available in R&D
- **February 2015** – TFMData made available in operational environment via NEMS
- **November 2015** – FAA extended deadline and notified ASDI subscribers in writing of intent to decommission ASDI on April 29<sup>th</sup>, 2016
- **March 2016** – **22** consumers have not successfully transitioned to Operations
  - 22 are expected to transition in next 30 days
- **22 subscribers remain to be transitioned by April**
- 18 ASDI consumers have opted out of transition

# Process for New External Consumers

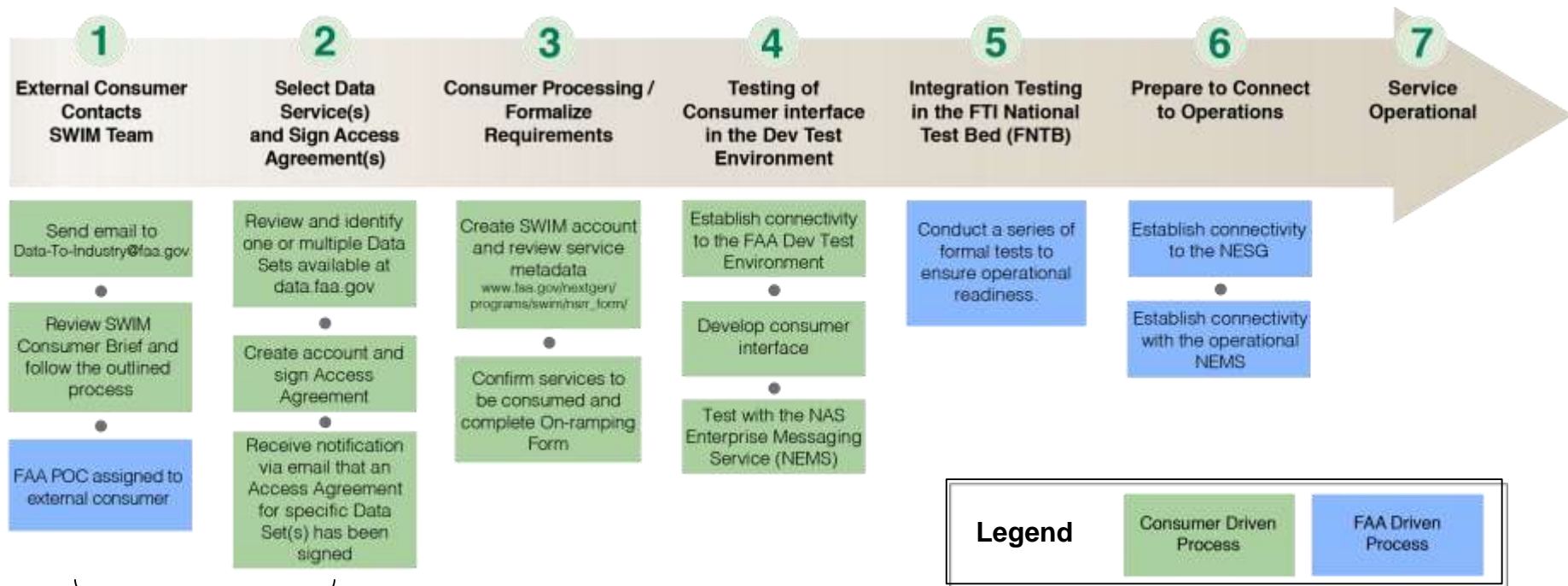
Primarily consumer driven and highly dependent on consumer technical competency and preparedness

Primarily FAA driven for ordering and change management

1-3 weeks

12-16 weeks

6-9 weeks



Note: Steps are not necessarily serial

# Recent Critical Milestones

- **January 12th, 2016** – next ASDI to SWIM Transition Meeting
  - Signed Access Agreement for TFMDData
    - [Data.faa.gov](http://Data.faa.gov)
- **February 15th, 2016** – Consumer has completed or scheduled FNTB consumer qualification testing
  - Early date allows for changes to client in event issues identified during FNTB consumer qualification testing
  - Some known exceptions apply
- **March 31st, 2016** – Target date for all transitioning subscribers to be transitioned to Operations
  - Early date allows for parallel operations on part of consumer
  - Some known exceptions apply

# Critical Milestones – cont'd

- **Operational Readiness -- SWIM**
  - FAA ordered services for all transitioning ASDI to SWIM customers
  - All services will be available in Operations NLT 4/15
- **Operational Readiness -- Network**
  - FAA identified VPN configuration times for each of the transitioning ASDI to SWIM customers
  - All consumers have completed or are scheduled to complete their VPN to Operations NLT 3/31
    - Consumers that were unable to meet their original scheduled VPN date have been provided a new date
    - The FAA cannot guarantee additional VPN configuration dates will be available after 4/15/16
- **April 29<sup>th</sup>, 2016** – FAA committed date for decommissioning of ASDI service

# Frequently Asked Questions

- **Will NATS UK / London Data be available on SWIM?**
  - No, NATS UK data is not currently available to external consumers
  - Current ASDI consumers receiving NATS UK data -- the SWIM Program Office has placed orders to change your subscription to be operational prior to April 29<sup>th</sup> when ASDI is decommissioned
- **Will the BARR List be available on SWIM?**
  - The FAA will be making no changes to the BARR list resulting from the transition to SWIM
- **Will the FAA provide an API client for use by TFMData consumer?**
  - No, the FAA is unable to provide API clients. The FAA has provided a Jumpstart kit to assist with development.
- **Is it acceptable to use a client that has been developed and tested by another ASDI consumer?**
  - Yes, you may work with other transitioning ASDI consumers to develop your own client or you may use their developed and tested client. If you choose to utilize a FNTB qualified client you may deploy directly to operations from R&D.
- **What is driving the April 29<sup>th</sup>, 2016 decommission date?**
  - The April 29<sup>th</sup> date is linked to a TFMS Software deployment.
- **What are the differences between the ASDI feed and the SWIM TFM feed?**
  - CSC has provided a whitepaper describing the differences between the ASDI and SWIM TFM Feeds. The whitepaper is located at [http://www.faaindustryforum.org/Paper\\_FlightDataComparisonToASDI-Final.pdf](http://www.faaindustryforum.org/Paper_FlightDataComparisonToASDI-Final.pdf)

# Update From Consumers

- **What issues are you experiencing that are preventing you from completing R&D or FNTB qualification?**
- **What types of assistance from the FAA would you find beneficial in your transition?**





# Pre-Operational Deployment Key Contacts

- Your organization has been provided a POC upon entry into the external consumer on-ramping process

Mailbox: [Data-To-Industry@faa.gov](mailto:Data-To-Industry@faa.gov)

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|-----------------------|--|
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# Backup Slides



# Client Development, API Versions, and Standards Supported by SWIM



# Client Development in the Dev Test Environment

- **First time External Consumers connect to Dev Test Environment**
- **Start client development in parallel with establishing connectivity to Dev Test Environment**
- **Tips to Consumers**
  - Review the NEMS User Guide
    - Determine JMS Client Type as early as possible (*see next slide*)
    - Understand Basic and Enhanced capabilities of NEMS
  - Identify critical staff to facilitate development
    - Identify experienced Java Message Service (JMS) Developer
  - Review the SWIM Jump start kit
  - To avoid client development process, consider licensing JMS client from third party

# Client API Versions and Standards Supported by SWIM NEMS

JMS Client APIs			
<b>Vendor:</b>	Solace (standard)	FuseSource (requires exception approval)	Oracle (requires exception approval)
<b>Name:</b>	Solace	ActiveMQ	WebLogic 11g
<b>Version:</b>	7.1.0.207	5.5.1	10.3.5.0

All data products are available on Solace; limited data product set available using ActiveMQ and WebLogic

Web Services	
<b>Feature:</b>	<b>Specification:</b>
<b>Web service description</b>	Web Services Description Language (WSDL) 1.1 - XML-based specification that describes a Web service.
<b>Data exchange between Web service and requesting client</b>	Simple Object Access Protocol (SOAP) 1.1 and 1.2 - Lightweight XML-based protocol used to exchange information in a decentralized, distributed environment.
<b>Reliable communication</b>	Web Services Addressing (WS-Addressing) 1.0 - Transport-neutral mechanisms to address Web services and messages

# ASDI Consumers that Opted out of Transition

- **Received notification from 18 consumers confirming they do not need to transition to ASDI**
  - No longer need data
  - Have opted to go to third party for the data
- **SWIM PMO recommendation – Risk mitigation**
  - TFMS disconnect these users from ASDI ports in mid-March to confirm they no longer need the data – prior to April 29<sup>th</sup>

Ascent (no longer need, alternate feed)	Leidos (no longer use ASDI feed)
Cignus Consulting (not using operationally)	Lockheed Martin IS&GS (no longer use ASDI feed)
Colt International (not using operationally)	Lockheed Martin TSS (flightwinds)
DHS FAMS (wasn't using operationally)	NAV Portugal (not using operationally)
GE Flight Efficiency (Cannot commit resources)	Rockwell Collins (Consolidated with ARINC feed)
Honeywell Network Redmond (Consolidated)	Sensis Campbell (Consolidated with Saab Sensis feed)
Honeywell Tech Solutions ( not using operationally)	SkyTracker (not using operationally)
JetBlue ( transitioned to third party)	Unisys (not using operationally)
Korean Airlines (not using operationally)	Vector (waiting for terminal data before transition to OPS)